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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/673,961	12/15/2000	Andreas Bausewein	P00,1844	8768
	7590 03/16/2004		EXAM	INER
Baker Botts LLP 30 Rockerfeller Plaza New York, NY 10112			SINES, BRIAN J	
			ART UNIT	PAPER NUMBER
			1743	
			DATE MAILED: 03/16/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.					
		Application No.	Applicant(s)				
	Office Action Summary	09/673,961	BAUSEWEIN ET AL.				
	omoc Action Guilliary	Examiner	Art Unit				
	The MAIL INC DATE CALL	Brian J. Sines	1743				
Period fe	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with	the correspondence address				
I HE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a rep of period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply ly within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTHS	by be timely filed 10) days will be considered timely. Some mailing date of this communication.				
Status							
1)⊠	Responsive to communication(s) filed on 11/2	4/2003.					
3)[this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.				
Dispositi	on of Claims	-					
	Claim(s) 1-4 and 6-8 is/are pending in the app	ligation					
	4a) Of the above claim(s) is/are withdra						
5)□	Claim(s) is/are allowed.	without consideration.					
	Claim(s) <u>1-4 and 6-8</u> is/are rejected.						
	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/o	r election requirement					
	•	. Gooden roquironicini.					
	on Papers						
	The specification is objected to by the Examine						
10)[]	The drawing(s) filed on is/are: a)☐ acc	epted or b) \square objected to by t	the Examiner.				
	Applicant may not request that any objection to the						
44) 🗆 -	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is	s objected to. See 37 CFR 1.121(d).				
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Of	fice Action or form PTO-152.				
Priority u	nder 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 11	9(a)-(d) or (f).				
,	1.☐ Certified copies of the priority documents	s baya baan waxaiid					
		Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Posts	ILY documents have been rec	eived in this National Stage				
* 5	application from the International Bureau		alternation				
0.	ee the attached detailed Office action for a list of	or the certified copies not rece	eivea.				
ttachment(•						
	of References Cited (PTO-892)	4) Interview Summ	nary (PTO-413)				
i) 💹 Inform	of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	Paper No(s)/Ma 5) Notice of Inform 6) Other:	il Date lal Patent Application (PTO-152)				
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OL-326 (Re	v. 1-04) Office Act	ion Summary	Part of Paper No./Mail Date 03022004				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-4 and 6-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, in line 5, the recitation of "traces" of at least one catalytically active substance is present is unclear. It is unclear as to what amount or concentration range of catalytically active substance constitutes a "trace" amount. In line 7, does the applicant intend to recite a "resistive semiconductor *layer*"?

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 6 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Clifford (U.S. Pat. No. 4,542,640). Regarding claims 1-3, 6 and 8, Clifford teaches a sensing apparatus comprising: first and second sensor regions comprising catalytic agents. Clifford teaches that the individual sensors contained within the sensor array may comprise different sensing element compositions. Clifford teaches the incorporation of semiconductor materials within the sensing elements (see col. 7, lines 9-64). Regarding claim 4, Clifford teaches the

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incorporation of a platinum catalyst (see col. 4, lines 19 – 34). The patentability of a product or apparatus does not depend on its method of production or formation. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process. See *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985) (see MPEP § 2113).

Furthermore, regarding claim 6, it should be noted that these claims are directed to an apparatus. Therefore, it is the structural limitations of the apparatus, as recited in the claim, which are considered in determining the patentability of the apparatus. This claim recites process or use limitations and are accorded no patentable weight to an apparatus. For example, this claim recites that the sensor region is manufactured as a semiconductor thick-film with poreformation by silk-screening. These process limitations do not impart any limitations to define the structure of the apparatus being claimed. Process limitations do not add patentability to a structure, which is not distinguished from the prior art. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See *In re Casey*, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 136 USPQ 458, 459 (CCPA 1963).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Clifford in view of Meixner *et al.* (U.S. Pat. No. 6,101,865 A). Clifford does not specifically teach that the sensor regions are manufactured of a resistive semiconductor comprising strontium titanate. However, Meixner *et al.* do teach the incorporation of a porous strontium titanate layer as a gas sensing layer in a gas sensor (see col. 2, lines 64 - 67; col. 3, lines 1 - 25). Therefore, it would have been obvious to one of ordinary skill in the art to incorporate the use of strontium titanate, as taught by Meixner *et al.*, with the gas sensor, as taught by Clifford, since the Courts have held that the selection of a known material based upon its suitability for the intended use is within the ambit of one of ordinary skill in the art. See *In re Leshin*, 125, USPQ 416 (CCPA 1960).

Response to Arguments

Applicant's arguments with respect to claims 1 - 4 and 6 - 8 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Stetter *et al.* teach a sensor array apparatus.

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Sines, Ph.D. whose telephone number is (571) 272-1263. The examiner can normally be reached on Monday - Friday (11:30 AM - 8 PM EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jill Warden
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